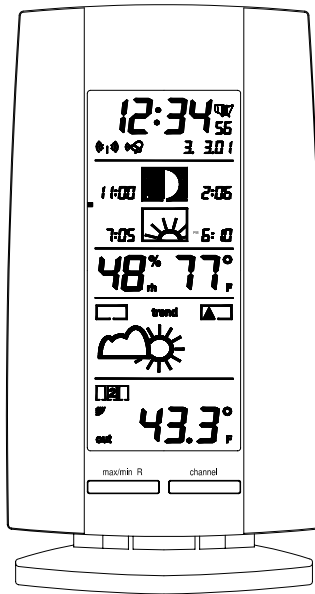


WS-9016U
Wireless 433 MHz
Radio-controlled
Sun/Moon Weather Station

Instruction Manual



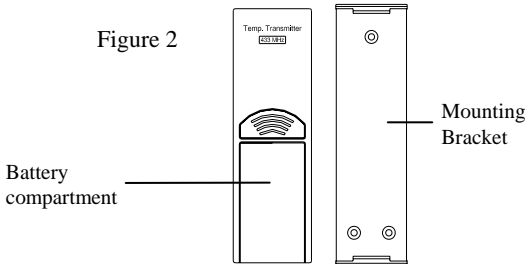
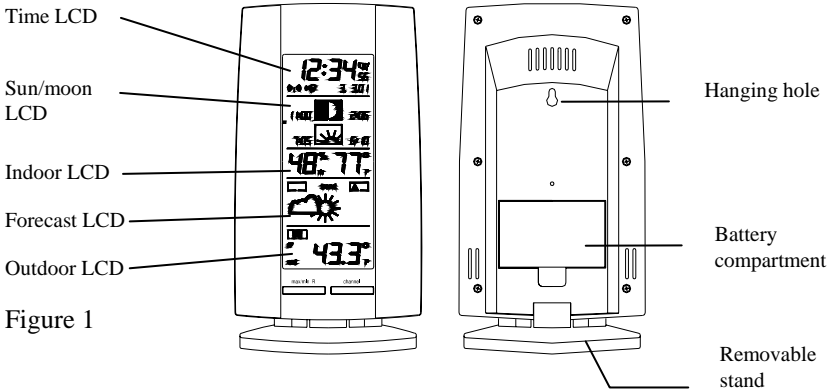
LA CROSSE *tools and technology*
TECHNOLOGY *for home and office*

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INVENTORY OF CONTENTS

1. The indoor weather station (Figure 1).
2. One TX6U remote temperature sensor with mounting bracket (Figure 2).
3. Three each, 1/2" Philips screws.
4. One strip double-sided adhesive tape.
5. Instruction manual and warranty card.



ADDITIONAL EQUIPMENT (not included)

1. Two, fresh AA 1.5V batteries for indoor weather station.
2. Two, fresh AA 1.5V batteries for remoter temperature sensor.
3. One, Philips screwdriver for mounting.

ABOUT WWVB (Radio Controlled Time)

The NIST (National Institute of Standards and Technology—Time and Frequency Division) WWVB radio station is located in Ft. Collins, Colorado and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the weather station. However, due to the nature of the earth's ionosphere, reception is very limited during daylight hours. The weather station will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic clock in Boulder, Colorado. A team of atomic physicists is continually measuring every second, of every day, to an accuracy of ten billionths of a second per day. These physicists have created an international standard measuring a second as 9,192,631,770 vibrations of a Cesium-133 atom in a vacuum.

QUICK SET-UP GUIDE

Hint: Use good quality Alkaline Batteries and avoid rechargeable batteries.

1. Have the indoor weather station and remote temperature sensor 3 to 5 feet apart.
2. Batteries should be out of both units for 10 minutes.
3. Place the batteries into the **remote temperature sensor** first then into the **indoor weather station**.
(All remote temperature sensors must be started before the indoor weather station)
4. **DO NOT PRESS ANY BUTTONS FOR 10 MINUTES.**

In this time the indoor weather station and remote temperature sensor will start to talk to each other and the indoor weather station will show both the indoor temperature and an outdoor temperature. If the indoor weather station does not display both temperatures after the 10 minutes please retry the set up as stated above. After both indoor and outdoor temperatures are displayed for 10 minutes you can place your remote temperature sensor outdoors and set your time.

The remote temperature sensor should be placed in a dry, shaded area. The remote temperature sensor has a range of 80 feet. Any walls that the signal will have to pass through will reduce distance. An outdoor wall or window will have 20 to 30 feet of resistance and an interior wall will have 10 to 20 feet of resistance. Your distance plus resistance should not exceed 80 ft. in a straight line.

NOTE: Fog and mist will not harm your remote temperature sensor but direct rain must be avoided.

To complete the set up of your indoor weather station after the 10 minutes have passed please follow the steps starting on page 6.

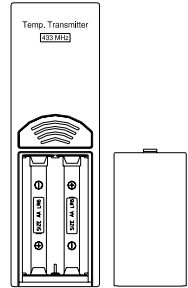
Note: *The remote temperature sensor transmits a signal every 3 minutes; after the batteries have been installed, the indoor weather station will search for the signal for a duration of 5 minutes. If there is no temperature reading in the OUTDOOR LCD after 5 minutes, make sure the units are within range of each other or repeat the battery installation procedure.*

DETAILED SET-UP GUIDE

I. Battery Installation

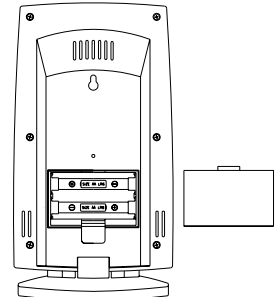
A. Remote Temperature Sensor

1. Remove the mounting bracket. The bracket snaps on and off easily.
2. Remove the battery cover, by sliding the cover down.
3. Observing the correct polarity install 2 AA batteries. The batteries will fit tightly (to avoid start-up problems make sure they do not spring free).
4. Replace the battery cover by sliding upwards. Be sure battery cover is on securely.



B. Indoor Weather Station

1. Remove the battery cover. To do this, insert a solid object in the space provided at the lower-central position of the battery cover, then push up and pull out on the battery cover.
2. Observe the correct polarity, and install 2 AA batteries.
3. Replace the battery cover.



Note: Immediately after the batteries have been installed, each LCD (Liquid Crystal Display) will flash and a tone will sound. Within a few seconds the indoor temperature, indoor relative humidity and the weather icons (sun and clouds) will be displayed. If not, then remove batteries for 10 seconds and reinstall. If the outdoor temperature is not displayed within four minutes, remove batteries from both units, wait 10 seconds, and reinstall. The time will show --:-- and start searching for the signal. If it successfully receives the time signal (usually at night), it will display the correct time (default is Eastern).

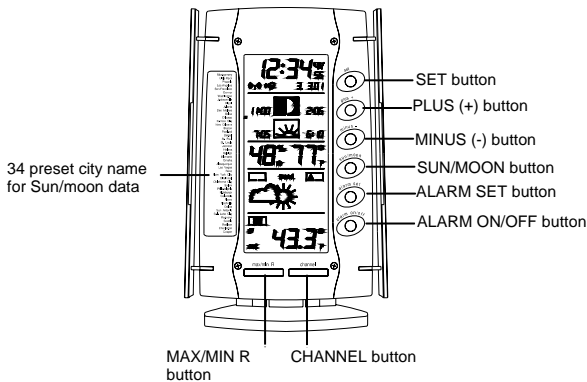
II. Program Mode

Programming Note: If 30 seconds are allowed to pass or either the IN or the OUT button is pressed during programming modes, the unit will set the last information entered—the display will stop flashing and return to normal time-date readings.

A. Function Keys

Weather Station:

The Weather Station has 8 easy to use function buttons; 6 behind the right front panel of the Weather Station and 2 on the front:



1. SET button

- Enter manual setting modes: LCD contrast, city location, time zone, DST ON/OFF, WWVB ON/OFF, 12/24 hour display, manual time setting, calendar, snooze function, temperature °C or °F, and weather icon sensitivity setting
- Stop the alarm during alarm ringing

2. PLUS (+) button

- Increase value in all setting modes
- Increase the digits
- Stop the alarm during alarm ringing

3. **MINUS (-) button**

- Decrease value in all setting modes
- Decrease the digits
- Stop the alarm during alarm ringing

4. **SUN/MOON button**

- Enter the sun/moon setting mode
- Start the sun/moon time calculation of the selected city
- Stop the alarm during alarm ringing

5. **ALARM SET button**

- Enter the alarm setting mode
- Stop the alarm during alarm ringing

6. **ALARM ON/OFF button**

- Activate/de-activate the alarm time
- Stop the alarm during alarm ringing

7. **CHANNEL button**

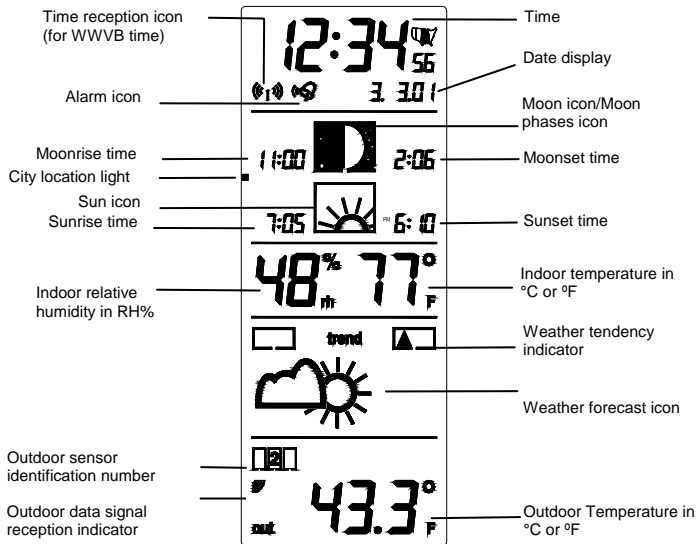
- Toggle between the outdoor sensors 1, 2 and 3 (if more than one sensor is used)
- Pressed together with “*MAX/MIN R*” button for 3 sec allows temperature channel reset
- Exit any set mode anytime during setting and to return to the normal display mode
- Stop the alarm during alarm ringing

8. **MAX/MIN R button (Max/min Reset)**

- Press shortly to toggle between maximum, minimum and current temperature value for selected outdoor temperature channel.
- Press and hold for 4 seconds to reset the maximum and minimum records for selected temperature channel.
- Press to activate snooze function during alarm if snooze time is valid in setting mode.
- Stop the alarm if snooze time is off in setting mode
- Pressed together with the “*CHANNEL*” button allows temperature channel reset

B. LCD Screen

The LCD screen is split into 5 sections displaying the information for time and date, sun/moon data, indoor data, weather forecast and outdoor data.

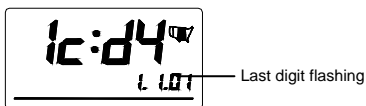


C. Manual Setting Sequence

The following manual settings can be changed when pressing the “SET” button:

- LCD contrast setting
- City location setting
- Time zone setting
- DST (Daylight Saving Time) setting
- WWVB ON/OFF setting
- 12/24-Hour setting
- Manual time setting
- Calendar setting
- Snooze setting
- °C/°F setting
- Weather forecasting icon sensitivity setting

LCD Contrast Setting



The LCD contrast can be set within 8 levels, from LCD 0 to LCD7 (the default setting is LCD 5):

1. Press and hold the “**SET**” button until the digit starts flashing in the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to view all levels of contrast.
3. Select the desired LCD contrast.
4. Press and release the “**SET**” button to confirm and enter in the **City location setting**.

City Location Setting



Open the left side panel on the Weather station to see the 45 preset city names list. Any city can be selected in order to view the sun/moon data (the default city is Washington D.C.). To select a city:

1. Open the left panel on the weather station. List of cities are displayed.
2. Use the PLUS (+) or MINUS (-) to select a city.
3. A small dot displayed on the left side of the LCD will light up next to the city name.
4. When a city is selected the city’s time zone will be displayed on the 4-time zone map located on the right side of the LCD.
5. Press and release the “**SET**” button to confirm and enter in the **Time zone setting**.

For a list of cities please see page 25 please.

Time Zone Setting



The default (factory set) time zone of the indoor weather station is EST -5 (the default time zone for the default city, Washington D.C.). To set a different time zone:

1. The current time zone value starts flashing on the LCD.
2. Press and release PLUS (+) or MINUS (-) button to set the time zone.
3. The range runs from 0 to +12 and then runs from -12 back to 0 in consecutive 1-hour intervals.
4. The LCD also displays a US time zone map and highlights the selected time zone for -5hr(EST), -6hr(CST), -7hr(MST) and -8hr(PST) zones.
5. Press and release the “*SET*” button to confirm and enter the **DST (Daylight Saving Time) setting**.

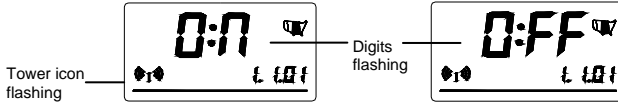
DST (Daylight Saving Time) Setting



Note: The DST default is “ON”, meaning that the received time will automatically be adjusted according to Daylight Saving Time in the spring and fall. For areas that do not recognize DST changes (Arizona and parts of Indiana) turn the DST “OFF”.

1. The digit “ON” will start flashing on the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to turn OFF the DST function.
3. Press and release the “*SET*” button to confirm and enter the **WWVB ON/OFF setting**.

WWVB ON/OFF Setting



In areas where reception of the WWVB time is not possible the WWVB time reception function can be turned OFF. The clock will then work as a normal Quartz clock. (the default setting is ON).

1. The digit “ON” will start flashing on the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to turn OFF the time reception function.
3. Press and release the “*SET*” button to confirm and enter the **12/24-HOUR setting**.

Note:

If the WWVB time reception function is turned OFF, the clock will not attempt any reception of the WWVB time signal as long as the WWVB OFF function is activated.

The WWVB reception icon will not be displayed on the LCD.

12/24-Hour Setting



The hour display can be selected to show the hours in 12-hour or 24-hour format (the default format is 12-Hour).

1. The digits “12h” will start flashing on the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to toggle between “12H” or “24H” format.
3. Press and release the “*SET*” button to confirm and enter the **Manual time setting**.

Manual Time Setting

In case the indoor weather station cannot detect the WWVB signal (for example due to disturbances, transmitting distance, etc.), the time can be manually set. The clock will then work as a normal Quartz clock.

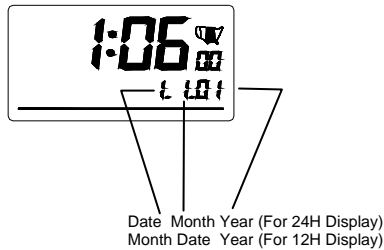


1. The hour digit will start flashing on the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to set the hour.
3. Press and release the “*SET*” button to confirm the hour.
4. The minute digits start flashing.
5. Press and release the PLUS (+) button or MINUS (-) button to set the minutes.
6. Press and release the “*SET*” button to confirm and enter the **Calendar setting**.

Note:

The unit will still try to receive the signal between 12:00 to 6:00 a.m. every day despite it being manually set and as long as the WWVB reception function has been set ON. When it does receive the signal it will change the manually set time into the received time. During reception attempts the WWVB tower icon will flash. If reception has been unsuccessful, then the WWVB tower icon will not appear but reception will still be attempted the following hour.

Calendar Setting



The default (factory set) date of the indoor weather station is 1. 1. in the year 2001. Once the radio-controlled time signal is received the date is automatically updated. If the signals are not received the date can also be set manually.

1. The year starts flashing in the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to set the year.
3. Press and release the “*SET*” button to confirm the year and to enter the month setting.
4. The month starts flashing.
5. Press and release the PLUS (+) or MINUS (-) button to set the month.
6. Press and release the “*SET*” button to confirm the month and to enter the date setting mode.
7. The date starts flashing.
8. Press and release the PLUS (+) or MINUS (-) button to set the date.
9. Press and release the “*SET*” button to confirm and enter the **Snooze setting**.

Snooze Setting



The snooze time can be set from OFF to a maximum time of 30 minutes. The default (factory) setting is OFF.

1. The digits “OFF” will start flashing in the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to set the snooze time. Each pressing of the button will increase or decrease the snooze time by 5 minutes. The snooze can also be set OFF when the “OFF” digit is being displayed.
3. Press and release the “*SET*” button to confirm and enter the **Temperature setting**

Note:

If the snooze time has been set “OFF” the snooze function will not be activated.

°F/°C Temperature Setting



The temperature display can be selected to show temperature data in °C or °F (the default setting is °F).

1. The digits “°F” will start flashing in the LCD.
2. Press and release the PLUS (+) or MINUS (-) button to toggle between “°C” and “°F”.
3. Press and release the “*SET*” button to confirm and enter the **Weather forecasting icon sensitivity setting.**

Weather Forecast Icon Sensitivity Setting



For locations with rapid changes of weather conditions, the weather icons can be set to a different level for faster display of weather conditions.

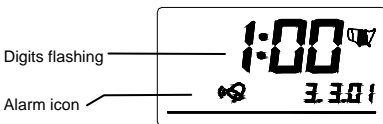
1. The current sensitivity value will start flashing.
2. Press and release the PLUS (+) or MINUS (-) button to set the weather sensitivity level.
3. There are 3 levels of setting: 1, 2 and 3; level 1 is the most sensitive setting, level 3 is the slowest recording setting (the default setting is "2").
4. Press and release the "SET" button to confirm and exit the **Manual settings**.

To Exit The Manual Setting Mode

To exit the manual setting mode anytime during the manual setting modes, press the "CHANNEL" button anytime or wait for automatic timeout. The mode will return to the normal time display.

III. FEATURES OF THE WS-9016U

Alarm Setting



The alarm time can be set by pressing the "ALARM SET" button.

1. Press and release the "ALARM SET" button.
2. The alarm hour digits flash.
3. Press and release the PLUS (+) or MINUS (-) button to set the alarm hour.
4. Press and release the "SET" button.
5. The minute digits start flashing.

6. Press and release the PLUS (+) or MINUS (-) button to set the alarm minute.
7. Press and release the “*SET*” button to confirm and exit the **Alarm setting**.

Note:

The maximum alarm ring duration is 3 minutes. The alarm setting can be activated or deactivated by pressing the “*ALARM ON/OFF*” button. The alarm icon will be displayed on the LCD if the setting is activated.

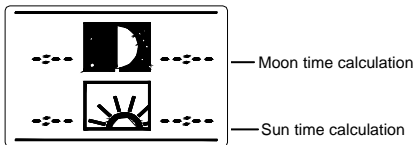
Snooze Setting and Stopping The Alarm

The snooze function can be reset when the alarm is ringing by pressing the “*MAX/MIN R*” button. However the snooze will only be activated when it is set other than OFF in the snooze setting. Otherwise the snooze function will not be activated.

To stop the alarm, press any button during alarm ringing.

SUN/MOON DATA AND MOON PHASES

Sun/Moon Data For Selected City



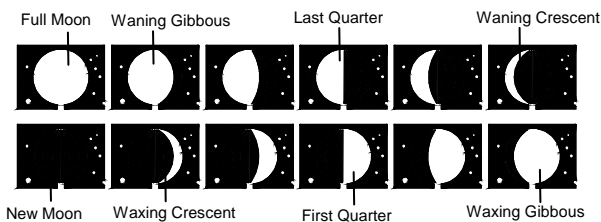
1. The sunrise/sunset and moonrise/moonset time for each of the preset cities can be displayed by pressing the “*SUN/MOON*” button.
2. Press and release the PLUS (+) or MINUS (-) button to choose any city from the list.
3. The small dot next to the city name will start flashing.
4. Press and release the “*SET*” button to confirm the city and choose a date (year/month/day) for sun/moon calculation by pressing and releasing the PLUS (+) or MINUS (-) button.
5. Press and release the “*SET*” button after selection of the day to start calculation of the sun/moon data.

Note: It will take a few seconds until the sun/moon data will be displayed. The display will return after 3 minutes to normal mode. The “CH” button can also be used to return immediately to the normal display mode. If only a specific data is changed, e.g. only a different city is selected, the “SUN/MOON” button can be pressed to start the calculation.

Note: Due to topographic variation of the landscape (hills, valleys) there might be small differences between the sunrise/sunset moonrise/moonset time displayed and the actual sunrise/sunset moonrise/moonset time.

Moon Phase Symbols

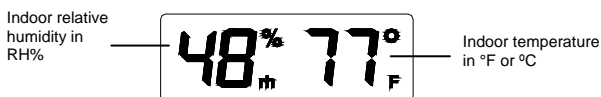
The moon icon of the weather station will also display all 12 moon phases throughout the year accordingly to the set calendar.



Note: It may happen that there is no moonrise or moonset on a certain date, consequently “+1” above the moonrise or moonset time will be displayed to indicate that it will occur at the displayed time the next day.

Indoor Relative Humidity and Indoor Temperature

The indoor temperature and humidity data are automatically updated and displayed on the third section of the LCD.

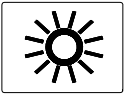


WEATHER FORECAST AND WEATHER TENDENCY:

WEATHER FORECASTING ICONS:

Note: The weather forecast icons of this indoor weather station are a prediction of what the weather is going to do in the next 12 to 20 hours. These are not indications of the current weather.

Weather icons in the fourth section of LCD can be displayed in any of the following combinations:



Sunny



Cloudy with sunny intervals



Rainy

For every sudden or significant change in the air pressure the weather icons will update accordingly to represent the change in weather. If the icons do not change, then it means either the air pressure has not changed or the change has been too slow for the indoor weather station to register. However, if the icon displayed is a sun or raining cloud, there will be no change of icon if the weather gets any better (with sunny icon) or worse (with rainy icon) since the icons are already at their extremes.

The icons displayed forecasts the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. This simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy.

Note: After setting up, readings for weather forecasts should be disregarded for the next 12-24 hours. This will allow sufficient time for the indoor weather station to collect air pressure data at a constant altitude and therefore result in a more accurate forecast.

Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the indoor weather station has been designed for use in. In areas that experience sudden changes in weather (for example from sunny to rain), the

indoor weather station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

If the indoor weather station is moved to another location significantly higher or lower than its initial standing point (for example from the ground floor to the upper floors of a house), disregard the weather forecast for the next 12-24 hours. By doing this the indoor weather station will not mistake the new location as being a possible change in air-pressure when really it is due to the slight change of altitude.

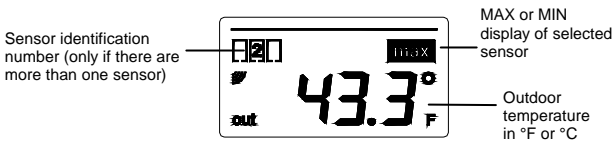
WEATHER TENDENCY INDICATOR

Working together with the weather icons is the weather tendency indicators (located on the upper left and right side of the weather icons). When the indicator points upwards, it means that the air-pressure is increasing and the weather is expected to improve, but when indicator points downwards, the air-pressure is dropping and the weather is expected to become worse.

Taking this into account one can see how the weather has changed, and is expected to change. For example, if the indicator is pointing downwards together with cloud and sun icons, then the last noticeable change in the weather was when it was sunny (the sun icon only). Therefore, the next change in the weather will be cloud with rain icons since the indicator is pointing downwards.

Note: Once the weather tendency indicator has registered a change in air pressure, it will remain permanently visualized on the LCD.

OUTDOOR TEMPERATURE:



The last LCD section can show the outdoor temperature, the reception indicator and the minimum or maximum reading. A number beside the temperature will also be shown if more than one remote temperature sensor has been used.

TOGGLING AND RESETTING THE OUTDOOR RECORDINGS:

1. To toggle between the outdoor current, maximum and minimum temperature data and the times they were recorded press and release the “*MAX/MIN R*” button:
 - Once to show the maximum outdoor temperature data with the recorded time and date.
 - Twice to show the minimum outdoor temperature data with the recorded time and date.
 - Three times to return to the current displayed values.
2. To toggle between sensors, press and release the “*CHANNEL*” button:
 - Once to show sensor 2
 - Twice to show sensor 3
 - Three times to return to sensor 1

Note: The sensor number will only be displayed if there is more than one sensor being used.

3. To reset the maximum and minimum outdoor temperature, and the time at which they were recorded, press and hold the “*MAX/MIN R*” button for 4 seconds. This will reset all minimum and maximum data recorded to the displayed values for the selected remote temperature sensor.

ADDING OUTDOOR REMOTE TEMPERATURE SENSORS (OPTIONAL)

The WS-9016U is able to receive signals from 3 different remote temperature sensors. The remote temperature sensor model(s) that you choose will come with their own set of instructions. Follow these instructions for a complete guide to setting up. Following are some brief instructions for the basic set-up of remote temperature sensor units with the WS-9016U. These extra remote temperature sensors can be purchased through the same dealer as this unit, or by contacting La Crosse Technology directly. A TX6U will monitor temperature only, a TX3U will monitor temperature and display the temperature on its LCD, and the TX3UP will monitor the temperature via a probe for measuring soil or water temperatures..

Note: *When setting up multiple units it is important to remove the batteries from all existing units in operation. Then insert batteries into all the remote temperature sensor units in numeric sequence. Second, install batteries into the indoor weather station. Transmission problems will arise*

if this is not done correctly and if the total time for set-up exceeds 6 minutes.

SET-UP OF MULTIPLE UNITS

1. It is necessary to remove the batteries from all units currently in operation.
2. Remove the battery covers to all remote temperature sensor units.
3. Place all remote temperature sensor units in a numeric sequential order.
4. In sequential order, install batteries (follow the same battery installation procedures seen in section I. A) of the Detailed Set-Up Guide).
5. Install batteries into the indoor weather station.
6. Follow the Detailed Set-Up Guide for programming and operating instructions.

MOUNTING

Note: *Before permanently mounting ensure that the indoor weather station is able to receive WWVB signals from the desired location. Also, extreme and sudden changes in temperature will decrease the accuracy of the indoor weather station and changes in elevation will result with inaccurate weather forecasting for the next 12 to 24 hours. These changes will require a 12 to 24 hour wait before obtaining reliable data. To achieve a true temperature reading, avoid mounting where direct sunlight can reach the remote temperature sensor. We recommend that you mount the remote temperature sensor on a North-facing wall. The sending range is 80ft—obstacles such as walls, concrete and large metal objects can reduce the range. Place both units in their desired location and wait approximately 10 minutes before permanently mounting to ensure that there is proper reception. The indoor weather station should display a temperature in the OUTDOOR LCD within 4 minutes of setting up.*

THE REMOTE TEMPERATURE SENSOR

The remote temperature sensor can be mounted in two ways:

- with the use of screws
- using the adhesive tape

A. MOUNTING WITH SCREWS

1. Remove the mounting bracket from the remote temperature sensor.
2. Place the mounting bracket over the desired location.
3. Through the three screw holes of the bracket, mark the mounting surface with a pencil.
4. Where marked, start the screw holes into mounting surface.
5. Screw the mounting bracket onto the mounting surface.
6. Ensure that the screws are flush with the bracket.

B. MOUNTING WITH ADHESIVE TAPE

1. With a nonabrasive solution, clean and dry the back of the mounting bracket and the mounting surface to ensure a secure hold. The mounting surface should be smooth and flat.
2. Remove the protective strip from one side of the tape.
3. Adhere the tape to the designated area on the back of the mounting bracket.
4. Remove the protective strip from the other side of the tape.
5. Position the remote temperature sensor in the desired location, ensuring that the indoor temperature station can receive the signal.

THE INDOOR TEMPERATURE STATION

The indoor temperature station can be mounted in two ways:

- with the table stand
- on the wall with the use of a wall hanging screw (not included)

A. USING THE TABLE STAND

The indoor temperature station comes with the table stand already mounted. If you wish to use the table-stand all that is required is to place the indoor temperature station in an appropriate location.

B. WALL MOUNTING

1. Remove the table stand. To do this, pull down on the stand from the rear and rotate forward.
2. Fix a screw (not included) into the desired wall leaving approximately 3/16 of an inch (5mm) extended from the wall.
3. Place the indoor temperature station onto the screw using the hanging hole on the backside.
4. Gently pull the station down to lock the screw into place.

City Listing (In order as they appear on left side of unit)

Montgomery, Alabama
Little Rock, Arkansas
Phoenix, Arizona
Los Angeles, California
San Francisco, California
Denver, Colorado
Washington D.C.
Jacksonville, Florida
Miami, Florida
Atlanta, Georgia
Des Moines, Iowa
Boise, Idaho
Chicago, Illinois
Kansas City, Kansas
New Orleans, Louisiana
Boston, Massachusetts
Portland, Maine
Detroit, Michigan
St. Paul, Minnesota
St. Louis, Missouri
Jackson, Mississippi
Helena, Montana
Raleigh, North Carolina

Bismarck, North Dakota
Omaha, Nebraska
Albuquerque, New Mexico
Las Vegas, Nevada
Reno, Nevada
New York City, New York
Cincinnati, Ohio
Oklahoma City, Oklahoma
Salem, Oregon
Philadelphia, Pennsylvania
Pittsburgh, Pennsylvania
Columbia, South Carolina
Pierre, South Dakota
Nashville, Tennessee
Dallas, Texas
San Antonio, Texas
Salt Lake City, Utah
Roanoke, Virginia
Seattle, Washington
Madison, Wisconsin
Charleston, West Virginia
Casper, Wyoming

Troubleshooting

Problem:	No reception of WWVB time signal
Solution :	<ol style="list-style-type: none"> 1) Wait overnight for signal. 2) Be sure indoor weather station is at least 6 feet from any electrical devices, such as televisions, computers, or other radio-controlled clocks. 3) Remove batteries for five minutes, reinsert and leave alone without pressing buttons overnight. 4) If there are still problems, contact La Crosse Technology
Problem:	Hour is incorrect (minute and date are correct)
Solution:	Be sure correct time zone and daylight saving time are selected.
Problem:	The LCD is faint
Solution:	<ol style="list-style-type: none"> 1) Set the LCD contrast to a higher number 2) Replace batteries
Problem:	No remote temperature is displayed
Solution:	<ol style="list-style-type: none"> 1) Remove all batteries, reinsert into remote sensor(s) first, then indoor weather station. 2) Place remote sensor(s) closer to indoor weather station. 3) Be sure all batteries are fresh.
Problem:	Remote humidity displays “- -“
Solution:	<ol style="list-style-type: none"> 1) A temperature only sensor is being used and displayed 2) The humidity is outside the range of 19-95%

NOTE: For problems not solved, please contact La Crosse Technology.

MAINTENANCE AND CARE INSTRUCTIONS

- Extreme temperatures, vibration and shock should be avoided to prevent damage to the units.
- Clean displays and units with a soft, damp cloth. Do not use solvents or scouring agents. They may mark the displays and casings.
- Do not submerge in water.
- Immediately remove all low powered batteries to avoid leakage and damage.
- Opening the casings invalidates the warranty. Do not try to repair the unit. Contact La Crosse Technology for repairs.

SPECIFICATIONS

Temperature measuring range:	
Indoor:	32°F to 140°F with 0.1°F resolution. (0°C to 60°C with 0.1°C resolution) “OF” displayed if outside this range
Outdoor:	-21.8°F to 157.8°F with 0.2°F resolution. (-29.9°C to 69.9°C with 0.1°C resolution) “OF” displayed if outside this range
Indoor relative humidity measuring range:	20% to 95% with 1% resolution. (“- -” displayed if outside this range.
Indoor temperature checking interval:	Every 15 seconds
Indoor humidity checking interval:	Every 20 seconds
Outdoor temperature checking interval (Remote Temperature Sensor):	Every 1 minute
Outdoor temperature reception (Indoor Weather Station):	Every 5 minutes
Transmission Range:	80 feet (in open space)
Power Supply:	
Indoor Weather Station:	2 x AA, IEC LR6, 1.5V
Remote Temperature Sensor:	2 x AA, IEC LR6, 1.5V
Battery life cycle:	Approximately 12 months
Recommended battery type:	Alkaline
Dimensions (L x W x H)	
Indoor Weather Station (without stand):	4.01” x 1.50” x 6.75” (102 x 36 x 172mm)
Remote Temperature Sensor:	1.57” x 0.90” x 5.04” (40 x 23 x 128 mm)

WARRANTY INFORMATION

La Crosse Technology, Ltd provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship.

This limited warranty begins on the original date of purchase, is valid only on products purchased and used in North America and only to the original purchaser of this product. To receive warranty service, the purchaser must contact La Crosse Technology, Ltd for problem determination and service procedures. Warranty service can only be performed by a La Crosse Technology, Ltd authorized service center. The original dated bill of sale must be presented upon request as proof of purchase to La Crosse Technology, Ltd or La Crosse Technology, Ltd's authorized service center.

La Crosse Technology, Ltd will repair or replace this product, at our option and at no charge as stipulated herein, with new or reconditioned parts or products if found to be defective during the limited warranty period specified above. All replaced parts and products become the property of La Crosse Technology, Ltd and must be returned to La Crosse Technology, Ltd. Replacement parts and products assume the remaining original warranty, or ninety (90) days, whichever is longer. La Crosse Technology, Ltd will pay all expenses for labor and materials for all repairs covered by this warranty. If necessary repairs are not covered by this warranty, or if a product is examined which is not in need of repair, you will be charged for the repairs or examination. The owner must pay any shipping charges incurred in getting your La Crosse Technology, Ltd product to a La Crosse Technology, Ltd authorized service center. La Crosse Technology, Ltd will pay ground return shipping charges to the owner of the product to a USA address only.

Your La Crosse Technology, Ltd warranty covers all defects in material and workmanship with the following specified exceptions: (1) damage caused by accident, unreasonable use or neglect (including the lack of reasonable and necessary maintenance); (2) damage occurring during shipment (claims must be presented to the carrier); (3) damage to, or deterioration of, any accessory or decorative surface; (4) damage resulting from failure to follow instructions contained in your owner's manual; (5) damage resulting from the performance of repairs or alterations by someone other than an authorized La Crosse Technology, Ltd authorized service center; (6) units used for other than home use (7) applications and uses that this product was not intended or (8) the products inability to receive a signal due to any source of interference.. This warranty covers only actual defects within the product itself, and does not cover the cost of installation or removal from a fixed installation, normal set-up or adjustments, claims based on misrepresentation by the seller or performance variations resulting from installation-related circumstances.

LA CROSSE TECHNOLOGY, LTD WILL NOT ASSUME LIABILITY FOR INCIDENTAL, CONSEQUENTIAL, PUNITIVE, OR OTHER SIMILAR DAMAGES ASSOCIATED WITH THE OPERATION OR MALFUNCTION OF THIS PRODUCT. THIS PRODUCT IS NOT TO BE USED FOR MEDICAL PURPOSES OR FOR

PUBLIC INFORMATION. THIS PRODUCT IS NOT A TOY. KEEP OUT OF CHILDREN'S REACH.

This warranty gives you specific legal rights. You may also have other rights specific to your State. Some States do not allow the exclusion of consequential or incidental damages therefore the above exclusion of limitation may not apply to you.

For warranty work, technical support, or information contact:

La Crosse Technology
2809 Losey Blvd. S.
La Crosse, WI 54601
Phone: 608.782.1610
Fax: 608.796.1020

e-mail:

support@lacrossetechnology.com

(warranty work)

sales@lacrossetechnology.com

(information on other products)

web:

www.lacrossetechnology.com

FCC ID: OMO-01RX (Receiver), OMO-01TX (sensor)

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- 1. THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND**
- 2. THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.**

WS-9016U Cities List

Montgomery, Alabama
Little Rock, Arkansas
Phoenix, Arizona
Los Angeles, California
San Francisco, California
Denver, Colorado
Washington D.C.
Jacksonville, Florida
Miami, Florida
Atlanta, Georgia
Des Moines, Iowa
Boise, Idaho
Chicago, Illinois
Kansas City, Kansas
New Orleans, Louisiana
Boston, Massachusetts
Portland, Maine
Detroit, Michigan
St. Paul, Minnesota
St. Louis, Missouri
Jackson, Mississippi
Helena, Montana
Raleigh, North Carolina
Bismarck, North Dakota
Omaha, Nebraska
Albuquerque, New Mexico
Las Vegas, Nevada
Reno, Nevada
New York City, New York
Cincinnati, Ohio
Oklahoma City, Oklahoma
Salem, Oregon
Philadelphia, Pennsylvania
Pittsburgh, Pennsylvania
Columbia, South Carolina
Pierre, South Dakota
Nashville, Tennessee
Dallas, Texas
San Antonio, Texas
Salt Lake City, Utah
Roanoke, Virginia
Seattle, Washington
Madison, Wisconsin
Charleston, West Virginia
Casper, Wyoming